

* HAVE HW OUT

* GET THE FOLLOWING LISTS:

BLK1	CANDY
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BLK2	DATA1
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BLK3	DATA2
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* COMPLETE THE WARM UP WORKSHEET

HW: p. 65 #28, 29, 31 & p. 71 #33, 34, 35

28) (a) $M = 87.75$ points This is the middle score on the test

(b) $Q1 = 82$ The middle 50% of test takers scored
 $Q3 = 93$ between 82 points and 93 points, or a
 $IQR = 11$ range of 11 points

(c) $A = 82 - (1.5 \times 11) = 65.5$ Normal data = (65.5, 109.5)
 $B = 93 + (1.5 \times 11) = 109.5$

outliers = 43, 45

(d)



29) (a) Median = 7 phone calls This is the middle number of calls

(b) $Q1 = 3.5$ The middle 50% of phone calls made
 $Q3 = 11.5$ is between 3.5 & 11.5 calls, or a range
 $IQR = 8$ of 8 calls.

(c) $A = 3.5 - (1.5 \times 8) = -8.5$ Normal data = (-8.5, 23.5)
 $B = 11.5 + (1.5 \times 8) = 23.5$

outliers = 35

31) (a) Min = -8

Q1 = 0

Med = 5 text – call

Q3 = 21

Max = 105

(b) Q1 = value that has 25% of the data below it. So 25% of the students call more than they text (since the values below Q1 are negative)

Median = The middle number of texts - calls is around 5. So on average, students send 5 more texts than calls

Q3 = the value that has 75% below, or 25% above. So 25% of students send 21 more texts than calls (or more!)

p. 71

For #33 & 34: type data into L1, use 1 var stats, look at \bar{x} and S_x

33) mean = 1600 This is the average metabolic rate of the men

34) standard deviation = 189.24

35) mean = \$67,609 median = \$50,233

There are outliers at VERY high salaries. There are a few people who make LOTS of money. This will make the mean higher.